AMENDMENTS TO THE CLAIMS

1.   (Currently Amended) A method for securely communicating to a mobile node on a communications system having a home network for the mobile node and at least one foreign network comprising the steps of:

[[establishing]] requiring at least one security association between the home network and the foreign network, wherein the home network has at least one home agent network server;

[[establishing]] requiring at least one security association between the mobile node and the foreign network using a registration reply message to transmit a public key, said registration reply message originating at the home agent network server and transmitted to the mobile node to acknowledge registering the mobile node care-of address with the home agent network server;

requiring that any information packet to be transmitted from the mobile node to the home network be encrypted with an encryption mechanism;

transmitting the information packet from the mobile node using the security associations to support secure communications from the mobile node;

routing the information packet through a secure messaging gateway that includes a firewall and an AAA server performing authentication and accounting functions; and

decoding information from the encrypted information packet at the

home network to retrieve the information.

2.   (Currently Amended) The method of securely communicating to a mobile node in Claim 1 further comprising the step of:

    [[establishing]] requiring a security association between the home network and a correspondent node.

3.   (Currently Amended) The method of securely communicating to a mobile node in Claim 1 further comprising the step of:

    [[establishing]] requiring a security association between the mobile node and a correspondent node.

4.   (Currently Amended) The method of securely communicating to a mobile node in Claim 3 further comprising the step of:

    [[establishing]] requiring a security association between the home network and a correspondent node.

5.   (Original) The method of securely communicating to a mobile node in Claim 1 further comprising the step of:

    encrypting information using a public key algorithm.

6. (Original) The method of securely communicating to a mobile node in Claim 1 further comprising the step of:

encrypting information using a private key algorithm.

7. (Original) The method of securely communicating to a mobile node in Claim 1 further comprising the step of:

supporting the secure communication for the security association between the foreign network and the mobile node using a code-based cellular communication system.

8. (Currently Amended) The method of securely communicating to a mobile node in Claim 1 further comprising the step of:

[[establishing]] requiring multiple security associations between a plurality of foreign networks and the home network.

9. (Original) The method of securely communicating to a mobile node in Claim 8 further comprising the step of:

[[establishing]] requiring a service level agreement to manage the secure communication of information packets on the multiple security associations.

10. (Currently Amended) The method of securely communicating to a mobile node in Claim 9 further comprising the step of:

[[establishing]] requiring a broker to assist in the use of service level agreements on the secure communications system.

11. (Currently Amended) A method for securely communicating to a mobile node on a communications system having a home network for the mobile node and at least one foreign network comprising the steps of:

[[establishing]] requiring at least one security association between the home network and the mobile node, wherein the home network has at least one home agent network server, and using a service level agreement broker to establish and maintain a plurality of security associations;

transmitting a registration message containing a public key, said registration message originating at the home agent network server and routed to the mobile node to acknowledge registering the mobile node care-of address with the home network;

requiring that any information packet to be transmitted from the mobile node to the home network be encrypted using an encryption mechanism;

transmitting the information packet from the mobile node using the security associations to support secure communications from the mobile node;

routing the information packet through a secure messaging gateway comprising a firewall blocking access of unsecured packets and an AAA server performing authentication and accounting functions; and

decoding information from the encrypted information packet at the home network to retrieve the information.

12.   (Original) The method of securely communicating to a mobile node in Claim 11 further comprising the step of:

[[establishing]] requiring a security association between the home network and a correspondent node.

13.   (Previously Amended) The method of securely communicating to a mobile node in Claim 11 further comprising the step of:

[[establishing]] requiring a security association between the mobile node and a correspondent node.

14.   (Original) The method of securely communicating to a mobile node in Claim 13 further comprising the step of:

[[establishing]] requiring a security association between the home network and a correspondent node.

15.   (Original) The method of securely communicating to a mobile node in Claim 11 further comprising the step of:

encrypting information using a public key algorithm.

16.   (Original) The method of securely communicating to a mobile node in Claim 11 further comprising the step of:

encrypting information using a private key algorithm.

17.   (Original) The method of securely communicating to a mobile node in

Claim 11 further comprising the step of:

[[establishing]] <u>requiring</u> multiple security associations between a

plurality of foreign networks and the home network.

18.   (Original) The method of securely communicating to a mobile node in

Claim 17 further comprising the step of:

[[establishing]] <u>requiring</u> a service level agreement to manage the

secure communication of information packets on the multiple security

associations.

19.   (Currently Amended) The method of securely communicating to a mobile

node in Claim 18 further comprising the step of:

[[establishing a broker to assist in the use of]] <u>maintaining a</u>

<u>plurality of</u> service level agreements <u>at the service level agreement broker</u>

<u>for use</u> on the secure communications system<u>, said service level</u>

<u>agreements including a plurality of networks.</u>

20.   (Currently Amended)   A system for securely communicating to a mobile node in a wireless communications network comprising:

a home network having a home agent server coupled to a router capable of directing information packets to and from the home network;

a foreign network having a foreign agent coupled to a router capable of directing information packets to and from the foreign network and a transceiver capable of performing wireless communications with at least one mobile node in the transmission range of the transceiver for the foreign network;

a broker functioning as a consortium of a plurality of security associations, said broker used to establish security associations;

[[a]] said security associations including a security association established between the home network and the foreign network and a security association established between the mobile node and the foreign network using registration messages to transmit a public key, the registration messages used for registering the mobile node care-of address with the home network and addressing to route between the home network and the mobile node, both security associations used to support the secure communication of information packets from the mobile node to the home network; and

said information packets routed through a secure messaging gateway comprising a firewall blocking access of unsecured packets and an AAA server performing authentication and accounting functions to

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track secure communication transmissions.

21.   (Original) The system of securely communicating to a mobile node in Claim 20 further comprising:

a security association between the home network and a correspondent node.

22.   (Original) The system of securely communicating to a mobile node in Claim 20 further comprising:

a security association between the mobile node and a correspondent node.

23.   (Original) The system of securely communicating to a mobile node in Claim 22 further comprising:

a security association between the home network and a correspondent node.

24.   (Original) The system of securely communicating to a mobile node in Claim 20 further comprising:

a public key encryption means to secure communications.

25. (Original) The system of securely communicating to a mobile node in Claim 20 further comprising:

a private key encryption means to secure communications.

26. (Original) The system of securely communicating to a mobile node in Claim 20 further comprising:

multiple security associations between a plurality of foreign networks and the home network.

27. (Original) The system of securely communicating to a mobile node in Claim 26 further comprising:

a service level agreement to manage the secure communication of information packets on the multiple security associations.

28. (Currently Amended) The system of securely communicating to a mobile node in Claim 27 further comprising:

a broker to assist in the use of service level agreements on a plurality of networks on the secure communications system.

29.   (Currently Amended) A system for securely communicating to a mobile

node in a wireless communications network comprising:

a home network having a home agent network server coupled to a

router capable of directing information packets to and from the home

network;

a foreign network having a foreign agent coupled to a router

capable of directing information packets to and from the foreign network

and a transceiver capable of performing wireless communications with at

least one mobile node in the transmission range of the transceiver for the

foreign network;

a security association established between the home network and

the mobile node using a registration message, said registration message

used for registering the mobile node care-of address with the home

network and addressing to transmit between the home network and the

mobile node, the security association used to support the secure

communication of information packets from the mobile node to the home

network said security association established using a broker supporting a

plurality of security associations; and

a security gateway including a firewall function blocking

unsecured packet access to the network and an AAA server performing

authentication and accounting functions used to track secure

communication transmissions using the security associations.

30. (Original) The system of securely communicating to a mobile node in Claim 29 further comprising:

a security association between the home network and a correspondent node.

31. (Original) The system of securely communicating to a mobile node in Claim 29 further comprising:

a security association between the mobile node and a correspondent node.

32. (Original) The system of securely communicating to a mobile node in Claim 31 further comprising:

a security association between the home network and a correspondent node.

33. (Original) The system of securely communicating to a mobile node in Claim 29 further comprising:

a public key encryption means to secure communications.

34. (Original) The system of securely communicating to a mobile node in Claim 29 further comprising:

a private key encryption means to secure communications.

35.   (Original) The system of securely communicating to a mobile node in

Claim 29 further comprising:

multiple security associations between a plurality of foreign

networks and the home network.

36.   (Original) The system of securely communicating to a mobile node in

Claim 35 further comprising:

a service level agreement to manage the secure communication of

information packets on the multiple security associations.

37.   (Currently Amended) The system of securely communicating to a mobile

node in Claim 36 further comprising:

a broker to assist in the use of service level agreements comprising

a plurality of security associations on the secure communications system.